GA Dept. of Community Affairs (DCA) 60 Executive Park South, N.E. Atlanta, Georgia 30329-2231

PROPOSED CODE AMENDMENTS 2015 International Energy Conservation Code (IECC) June 13, 2017

DCA Staff: Seti Ordoobadi Phone: (404) 679-3104 Date Rev.: 06-13-2017

Note Proposed Amendments: (added text to the code is: underlined, deleted text to the code is: struck through)

#	SECTION	SUMMARY	PROPONENT	ACT.*
1)	2015 IECC C202	The Southeast Energy Efficiency Alliance (SEEA), Southern Environmental Law Center (SELC), and Southface Energy Institute propose the following edit to the definition of "On-Site Renewable Energy" contained in Section C202 of the 2015 International Energy Conservation Code (IECC): Revise Section 202 General Definition. ON-SITE RENEWABLE ENERGY. Energy systems that are located on the building site, are installed on the building's side of the utility service provider's meter, produce energy primarily intended for use in the building and not solely for export to utilities, and produce energy derived from any of the following sources: solar radiation, wind, waves, tides, landfill gas, biomass or the internal heat of the earth. The energy system providing on site renewable energy shall be located on the project site.—Energy systems that derive energy from solar radiation shall be modeled in the orientation of the energy system or the nearest cardinal direction. Energy systems that provide electric energy fueled solely by ambient sunlight shall be located anywhere on the building site provided the building site is utilized by the same retail electric customer.	Shan Arora, Southface	
2)	2015 IECC C402.5, ASHRAE 90.1: 5.4.3	Proposed Amendment to require Light Commercial Building Blower Door Testing - (Amend IECC C402.5 and add to ASHRAE 90.1-2013 5.4.3) Regardless of which commercial code is used to demonstrate compliance, air leakage testing shall be required for all midrise Multifamily housing units containing up to six stories of residential units. Testing shall follow all the same requirements as low-rise Multifamily (3-stories and under)	Mike Barcik, Southface Representing (GEFA)	No Action in Lieu of Item 39
3)	2015 IECC C402.5, ASHRAE 90.1: 5.4.3	Proposed Amendment to require Light Commercial Building Blower Door Testing - (Amend IECC C402.5 and add to ASHRAE 90.1-2013) Regardless of which commercial code is used to demonstrate compliance, air leakage testing shall be required for all new, conditioned (both heated and cooled) commercial buildings < 5,000 s.f. Test results must demonstrate air tightness with an Envelope Leakage Ratio (ELR ₇₅) < 0.5 where, ELR ₇₅ = CFM ₇₅ / square footage of building shell area CFM of Leakage at 75 Pa (0.3 inches of w.c.) may be measured directly or extrapolated from leakage measured with a blower door at 50 Pa. For conversion purposes, CFM ₇₅ = CFM ₅₀ x 1.30 Exceptions: warehouses and storage spaces that are not fully conditioned (both heated and cooled) and buildings with commercial kitchen hoods Example 1. A one-story building measures 50 x 100 (5,000 s.f.) with 12' ceilings. The building shell area is the floors, walls and ceilings that make up the thermal envelope. In this example, • the building envelope (footprint) floor is 50x100 = 5,000 s.f. • the top level ceiling is 50x100 = 5,000 s.f. • the walls are 300' x 12' = 3,600 s.f. • The total shell area is 13,600 s.f. In order for the measured ELR ₇₅ to pass, the leakage must be less than 6,800 CFM ₇₅ . ELR ₇₅ = CFM ₇₅ / square footage of building shell area = 6,799 /13,600 < 0.5	Mike Barcik, Southface Representing (GEFA)	D

#	SECTION	SUMMARY	PROPONENT	ACT.*
	2015 IECC C402.5, ASHRAE 90.1: 5.4.3	Example 2. A two-story building with 12' ceilings measures 50 x 40 on each level (2,000 s.f. each floor, 4,000 s.f. total). The building shell area is the floors, walls (including the band between the first and second floors) and ceilings that make up the thermal envelope. In this example, • the building envelope (footprint) floor is 50x40 = 2,000 s.f. • the top level ceiling is 50x40 = 2,000 s.f. • the walls are (50'+40'+50'+40') x (12'+1'+12')' = 4,500 s.f. • The total shell area is 8,500 s.f. In order for the measured ELR ₇₅ to pass, the leakage must be less than 4,250 CFM ₇₅ . ELR ₇₅ = CFM ₇₅ / square footage of building shell area = 4,249 /8,500 < 0.5	Mike Barcik, Southface Representing (GEFA)	
4)	2015 IECC C402.5.3	Delete Section C402.5.3 Rooms containing fuel-burning appliances without substitution: C402.5.3 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion space conditioning fuel burning appliances, the appliances and combustion air openings shall be located outside of the building thermal envelope or enclosed in a room isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table C402.1.3 or C402.1.4, where the walls, floors and ceilings shall meet the minimum of the below grade wall R-value requirement. The door into the room shall be fully gasketed, and any water lines and ducts in the room insulated in accordance with Section C403. The combustion air duct shall be insulated, where it passes through conditioned space, to a minimum of R-8. Exceptions: 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 2. Fireplaces and stoves complying with Sections 901 through 905 of the International Mechanical Code, and Section 2111.13 of the International Building Code.	Andrea Papageorge, Southern Company Gas	
5)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Barry Dameron, Cobb School Distr.	
6)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Barry Spurlock, Spurlock Associates	
7)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Brian Griffin, Quality Air, Inc.	
8)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Bruce Stuart, Rockdale County Public Schools	
9)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Doug Roland, Cobb School Dist.	
10)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Dennis Bledsoe, Clayton Schools Dist.	
11)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8 in its entirety.	Edward Buhler, Southern A & E	
12)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Gregg Cox, Matheson Ball & Asso.	

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13)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Jack Gardner, Douglas County School System	
14)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	James Griffin, Quality Air, Inc.	
15)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	James Matheson, Matheson Ball & Asso.	
16)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Joe Perno, Barrow County Schools	
17)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Josh Patton, Jackson County School	
18)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Kenneth Elsberry, Paulding School Dist.	
19)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its Table C403.2.8, in its entirety.	Michael Kicher, Matheson-Ball & Assoc.	
20)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its Table C403.2.8, in its entirety.	Michael Waldbillig, Southern A&E	
21)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Mike Dillon, Spurlock & Assoc.	
22)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Pankaj Daiya, Bartow School Syst.	
23)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Phil Parrott, Cherokee School Distr.	
24)	2015 IECC C403.2.8	Remove the entire code section <u>"C403.2.8 Kitchen Exhaust Systems"</u> from the 2015 International Energy Conservation Code and the corresponding table <u>"Table C403.2.8 Maximum Net Exhaust Flow Rate, CFM per Linear Foot of Hood Length.</u>	Robert Scott Brown, Matheson-Ball & Assoc.	
25)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Scott Buchberger, Robertson Loia Roof	
26)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Scott Burgess, Oconee County Schools	
27)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Tim Fisher, Gwinnett County Schools	
28)	2015 IECC C403.2.8	Removal of Section C403.2.8 titled "Kitchen Exhaust Systems", including its corresponding Table C403.2.8, in its entirety.	Tim Williams, Rome County Schools	
29)	2015 IECC C407.3 and C407.4.2	Revise Sections C407.3 and C407.4.2 as follows: C407.3 Performance-based compliance. Compliance based on total building performance requires that a proposed building (proposed design) be shown to have an annual energy cost that is less than or equal to the annual energy cost of the standard reference design. Energy prices shall be taken from a source approved by the code official, such as the Department of Energy, Energy Information Administration's State Energy Price and Expenditure Report. Code officials shall be permitted to require time-of-use pricing in energy cost calculations. Nondepletable energy collected off site shall be treated and priced the same as purchased energy. Energy from nondepletable energy sources collected on site shall be omitted from the annual. The reduction in energy cost of the proposed design- associated with on-site renewable energy shall be not more than 5% of the total energy cost. The amount of renewable energy purchased from off-site sources shall be the same in the standard reference design and the proposed design. Exception: Jurisdictions that require site energy (1 kWh = 3413 Btu) rather than energy cost as the metric of comparison.	Eric Lacey, RECA	

#	SECTION		SUMMARY			PROPONENT	ACT.*
	2015 IECC C407.3 and C407.4.2	2. Thermal zoning diagrams of design and proposed design. 3. Input and output reports for output files, as applicable. The end-use served, total hours to generated by the simulation 4. An explanation of any errost. A certification signed by the as given in Table C407.5.1(1).	ding component characteristics of tonsisting of floor plans showing the rom the energy analysis simulation to e output file shall include energy us hat space conditioning loads are no tool as applicable. It or warning messages appearing in the builder providing the building cor	the standard reference design. It thermal zoning scheme for stand program containing the complete se totals and energy use by energy the met and any errors or warning the simulation tool output. In a proponent characteristics of the proponent characteristics of th	dard reference e input and gy source and messages	Eric Lacey, RECA	
		Revise Table C407.5.1(1) Incorporate the following approved 20 Hearings: CE 259-16 Part I (Commerci	015 IECC code change as of the end	of the 2016 ICC Group B Public C table is unchanged.	Comment		
	2015 IECC	Vertical fenestration other than opaque doors	1. The proposed glazing <u>vertical fenestration</u> area; where the proposed glazingvertical <u>fenestration area</u> is less than 40 percent of above-grade wall area. 2. 40 percent of above-grade wall area; where the proposed glazing vertical fenestration area is 40 percent or more of the above-grade wall area.	As proposed		Roger LeBrun,	
30)	Table	5,54,55	U-factor: as specified in Table C402.4	As proposed	1	(VELUX America LLC)	
30)	C407.5.1(1)		SHGC: as specified in Table C402.4 except that for climates with no requirement (NR) SHGC = 0.40 shall be used	As proposed		(VELOX AMERICA LLC)	
			External shading and PF: None	As proposed]		
		Skylights	Area 1. The proposed skylight area; where the proposed skylight area is less than that permitted by Section C402.1 3 percent of gross area of roof assembly. 2. The area permitted by Section C402.1 3 percent of gross area of roof assembly; where the proposed skylight area exceeds that permitted by Section C402.1 is 3 percent or more of gross area	As proposed			
			of roof assembly U-factor: as specified in Table C402.4	As proposed	-		
			O-factor: as specified in Table C402.4 SHGC: as specified in Table C402.4 except that for climates with no requirement (NR) SHGC = 0.40 shall be used.	As proposed As proposed			

#	SECTION	SUMMARY	PROPONENT	ACT.*
31)	2015 IECC R202	The Southeast Energy Efficiency Alliance (SEEA), Southern Environmental Law Center (SELC), and Southface Energy Institute propose to edit the definition of "On-Site Renewable Energy" contained in Section C202 of the 2015 International Energy Conservation Code (IECC) and to add the same definition to Section R202, which does not currently contain any definition for "On-Site Renewable Energy." Revised R202 General Definitions. ON-SITE RENEWABLE ENERGY. Energy systems that are located on the building site, are installed on the building's side of the utility service provider's meter, produce energy primarily intended for use in the building and not solely for export to utilities, and produce energy derived from any of the following sources: solar radiation, wind, waves, tides, landfill gas, biomass or the internal heat of the earth. The energy system providing on site renewable energy shall be located on the project site. Energy systems that derive energy from solar radiation shall be modeled in the orientation of the energy system or the nearest cardinal direction. Energy systems that provide electric energy fueled solely by ambient sunlight shall be located anywhere on the building site provided the building site is utilized by the same retail electric customer.	Shan Arora, Southface	A
32)	2015 IECC R401.2	Revise Section R401.2 as follows: R401.2 Compliance. Projects shall comply with all provisions of Chapter 4 labeled "Mandatory" and one of the following: 1. Sections R401 through R404. 2. Section R405. and the provisions of Sections R401 through R404 labeled "Mandatory." 3. An energy rating index (ERI) approach in Section R406. 4. The most recent version of REScheck, keyed to the 2015 IECC.	Eric Lacey, RECA	A
33)	2015 IECC R401.2.1	Delete Section R401.2.1 and replace with the following: R401.2.1 (Mandatory) – Where trade-offs are used, the minimum R-values, maximum U-factors, and maximum SHGCs for thermal envelope components in projects complying under this code (including the use of REScheck) shall be according to Table R401.2.1 Table R401.2.1 MINIMUM R-VALUES AND MAXIMUM U-FACTORS AND SHGC FOR ENVELOPE COMPONENTS WHEN TRADE-OFFS ARE USED	Eric Lacey, RECA	No Action in Lieu of Item 70

#	SECTION						SUMMAR	Y							PROPONENT	ACT.*	
		Revise Tak	oles R402.1.2				TABLE R402. RATION REQ		NTS F	SY COMP	PONENT						
		CLIMATE ZONE	CEILING R-VALUE	WOOD FRAME WALL R VALUE	<u>ATT</u> - <u>WALL</u>		MASS WALL R-VALUE	FLOOR VALU	R R-	BASE	MENT -VALUE	SLAB R- VALUE & DEPTH		.WL SPACE .L R-VALUE			
		2	38	13		18	4/6	13		()	0		0			
	2015 IECC	3	38	20 or 13+	+5 <u>20</u>	or 13+5	8/13	19		5/	13	0		5/13	Eric Lacey, RECA	No	
34)	Tables	4	49	20 or 13+	+5 <u>20</u>	or 13+5	8/13	19		10,	/13	10, 2ft		10/13	Life Lacey, NECA	Action in Lieu	
34,	R402.1.2						TABLE R402.									of Item	
	and R402.1.4		CELLING II	FDAAA	E 14/411		IVALENT U-FA			20.14/411	DACENAE	NT 14/411	CDAV	UL CDACE		57	
		Climate Zo	ne CEILING U FACTOR		E WALL CTOR	ATTIC KNEE WALL U-FACTO	MASS W			OR WALL ACTOR	BASEME U-FA	OT WALL CTOR		VL SPACE U-FACTOR			
		2	0.030	0.0	084	0.065	0.16	55	(0.064	0.3	60	0).477			
		3	0.030	0.0	060	<u>0.060</u>	0.09	98	C	0.047	0.0	91	0	0.136			
		4	0.026	0.0	060	<u>0.060</u>	0.09	98	().047	0.0	59	0	0.065			
		Revise Tal	oles R402.1.2	and R402	.1.4 to re	ad as follo	vs:										
							TABLE R402.	1.2									
				INS	ULATION	AND FENEST	RATION REQ										
		CLI	CLIMATE ZONE FENESTRATION U-FACTOR			R SKY	LIGHT U		ΓOR	GLAZE	O FENESTR		SHGC				
	2015 IECC	3			0.40 <u>0.35</u>			0.65 C				0.25				No	
251	Tables				0.35 0.35			0.55 0.55				0.25 0.40 0.			Frieless PECA	Action	
35)	R402.1.2 and	4			TABLE R402.1.4							in Lieu of Item					
	402.1.4		EQUIVALENT U-FACTORS													57	
		CLIMATE ZONE			ZONE FENESTRATION U-FACTOR			SKYLIGHT U-FACTOR GLAZED FENEST			O FENESTR	ATION	SHGC_				
					2		0.40 <u>0.35</u> 0.35			0.65 <u>0.55</u> 0.55			<u>0.25</u> 0.25				
			3 4				0.35 0.35		0.55 0.55			0.25 0.25					
								0.5	5			0.23					
		Revise Tab	ole R402.1.2 a	nd TableR	402.1.4 t			1.2									
				INSIII	ΑΤΙΩΝΙ ΑΝ		TABLE R402. ATION REQ		ENITO	BV COI	MDONEN	-					
									ass								
	2015 IECC	Climate	Fenestration	Skylight U-	Glazed Fenestrat	_	wood Fran	ne W	/all	Floor R-	Basement Wall R-	Sla R-Valu		Crawl Space Wall			
	Tables	Zone	U-Factor	Factor	SHGC		Wall R-Val		R- ilue	Value	Value	Dep		R-Value	Nick Wortel, APA	No Action	
36)	R402.1.2 and R402.1.4	2	0.40	0.65	0.25	38	13		/6	13	0	0		0	The Engineered Wood Association	in Lieu of Item	
		3	0.35	0.55	0.25	38	20 OR 13+ 15 or 13+2	<u>2h</u> 8/	13	19	5/13F	0		5/13		57	
		4 except marine	0.35	0.55	0.40	49	20 OR 13+ 15 or 13+2		1 3	19	10/13	10, 2	2 ft	10/13			
			alue is cavity insulat otnotes remain uncl		nd is continuo	ous insulation, so	R-13+ 5 2 means	R-13 cavity	y plus f	R- <u>52</u> contin	uous insulatio	on.					
		(all other 100	ochoics (chidili uffic	iungeu)													

#	SECTION					SUMMAI	RY				PROPONENT	ACT.*
						TABLE R402 EQUIVALENT U-						ACT.*
		Climate Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling R-Factor	Frame Wall U-Factor	Mass Wall U-Factor	Floor U-Factor	Basement Wall U-Factor	Crawl Space Wall R-Factor		
	2015 IECC Tables	2	0.40	0.65	0.030	0.084	0.165	0.064	0.360	0.477	Nick Wortel, APA The Engineered Wood	
	R402.1.2 and R402.1.4	3	0.35	0.55	0.030	0.060 <u>0.079</u>	0.098	0.047	0.091c	0.136	Association	
	ana N402.1.4	4 except marine	0.35	0.55	0.026	0.060 <u>0.079</u>	0.098	0.047	0.059	0.065		
		Revise Sec R402.2.1	Ceilings with	Ceilings with	es. Where Se		would requir		ition in the ceiling			
37)	2015 IECC R402.2.1	the full hei Section R4 insulation in Section I For HVAC a the require decking pe	ght of uncom 02.1.2 would shall be deem extends over R402.1.4 and ettic platform ements of R-3 er HVAC systel	pressed R-30 require R-49 red to satisfy the wall top the total UA s used for loo 8 (maximum m. R-19 shall	o insulation en insulation in the requirer plate at the calternative in the cating and second to the cating and second to the cating and second to the deemed	extends complet the ceiling, instance ment for R-49 in eaves. This redu n Section R402.2 ervicing equipment the ceiling. R-19	ely over the visalling R-38 of sulation when the lection shall not be supported by the lection shall not be	wall top plate ver 100 perc rever the ful ot apply to the ximum U-0.0 cceptable fo	e at the eaves. Sent of the ceiling I height of uncome U-factor altern ()47) shall be deel or up to 32 square passage to the HV	imilarly, where area requiring appressed R-38 attive approach ared to meet affect of attic	Randy Nicklas, ICYNENE, Inc.	А
38)	2015 IECC R402.2.14	Insulation Wall and c Passing Gra Two criteri insulated s depth). Voids/Gap Compression Compression Additional Additional	ade quality. Is affect instal surface) and considering and complete area) In a complete area and considering area area and compression and compression are overall insurance area area area area area area area ar	Details on that mak lled insulatio ompression, on the insulati the Fill the complete Fill the spray polyuter is more stallated surface on/incomple the the insulation of the i	es up portion In grading: vo Incomplete on are only of Il for both ai rethane foan cringent. The e to achieve a te fill with a of is more strin ents sulation shal	pids/gaps (in which the fill (in which the occasional and very permeable instance) must be less to allowable area a Passing Grade. depth greater the gent) shall not all be installed in the fill of t	nich no insulation dery small for allation (e.g., chan 1 inch incompression the above chieve a Passubstantial consultantial cons	ntion is prese oes not fully Passing Grad fiberglass, ce depth or les on/incomple e specification sing Grade.	residences shall ent in a portion of fill out or extend the (< 1% of overall ellulose) and air in the fill must be less than 20% of the te fill must be less than air barrier on a	f the overall to the desired II component II	Abe Kruger, SK Collaborative	

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	2015 IECC R402.2.14	Exception: Unfinished basements and fireplaces (insulation shall be restrained to stay in place). For unfinished s, air permeable insulation and associated framing in a framed cavity wall shall be installed less than %" from the basement wall surface. Attic kneewall details — Attic kneewalls shall be insulated to a total R-value of at least R-18 through any combination of cavity and continuous insulation. Air permeable insulation shall be installed with a fully sealed attic-side air barrier (e.g., OSB with seams caulked, rigid insulation with joints taped, etc.). Attic kneewalls with air impermeable insulation shall not require an additional attic-side air barrier. Underfloor insulation that makes up portions of the building thermal envelope in GA residences shall be installed to Passing Grade quality. Two criteria affect installed insulation grading: voids/ gaps (in which no insulation is present in a portion of the overall insulated surface) and compression/incomplete fill (in which the insulation does not fully fill out or extend to the desired depth). Voids/Gaps Voids or gaps in the insulation are minimal for Passing Grade (< 2% of overall component surface area) Compression/Incomplete Fill for both air permeable insulation (e.g., fiberglass, cellulose) and air impermeable insulation (e.g., spray polyurethane foam) must be less than 1 inch in depth or less than 20% of the intended depth, whichever is more stringent. The allowable area of compression/incomplete fill must be less than 10% of the overall insulated surface to achieve a Passing Grade. Any compression/incomplete fill with a depth greater than the above specifications (up to 1" or 20% of the intended depth, whichever is more stringent) shall not achieve a Passing Grade.	Abe Kruger, SK Collaborative	
39)	2015 IECC R402.4.1.2	Add a new Section 402.4.1.3 Low-rise R-2 multifamily testing. Low-rise R-2 multifamily dwellings shall be tested to less than 7 air changes per hour at 50 Pascals (ACH50). As an alternative to ACH50, compliance for Low-rise R2 dwellings may be attained by achieving an Envelope Leakage Ratio at 50 Pascals (ELR50) of less than 0.35 (ELR50 < 0.35, where ELR50 = CFM50 / Envelope Shell Area, in square feet). Add a new Section 402.4.1.3.1 Low-rise multifamily testing protocol. (Optional) Where a residential building is classified as R-2, envelope testing may (optionally) employ either or both of the following testing protocols: 1. Employ multiple fans in adjacent units (commonly referred to as Guarded Blower Door testing) to minimize effect of leakage to adjacent units (not required). 2. Envelope testing of less than 100 percent shall be acceptable assuming a maximum sampling protocol of 1 in 4 units per floor (if sampled unit passes, the remaining up to three units are deemed to comply; if sampled unit fails, it must be sealed and retested and the remaining up to three units shall also be tested).	David Goulding, Ensign Building Solutions; Mike Barcik, Southface, Representing (GEFA)	R

#	SECTION	SUMMARY	PROPONENT	ACT.*
40)	2015 IECC R402.4.4	Delete Section R402.4.4 without substitution: R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8. Exceptions: 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the International Residential Code.	Andrea Papageorge, Southern Company Gas	D
41)	2015 IECC R403.3	R403.3 (N1102.3) Ducts. Ducts and air handlers shall be installed in accordance with Sections R403.3.1 through R403.3.5 R403.3.7. New Text: R403.3.6.1 Ducts buried within ceiling insulation. Where supply and return air ducts are partially or completely buried in ceiling insulation, such ducts shall comply with all of the following: 1. The supply and return ducts have insulation of an R-value not less than of R-8. 2. At all points along each duct, the sum of the ceiling insulation R-values against and above the top of the duct, and against and below the bottom of the duct is not less than R-19, excluding the R-value of the duct insulation. 3. In climate zones 1A, 2A and 3A, the supply ducts which are completely buried within ceiling insulation, are insulated to an R-value of not less than R-13 and are in compliance with the vapor retarder requirements of Section 604.11 of the International Mechanical Code or Section M1601.4.6 or the International Residential Code, as applicable. Exception: Sections of the supply duct that are less than 3 feet from the supply outlet shall not be required to comply with these requirements. R403.3.6.1 Deeply buried duct effective R-value, Sections of ducts installed in accordance with Section R403.3.6 and directly on or within 5.5 inches of the ceiling board and surrounded with blown attic insulation of R-30 or greater and the top of the duct is buried a minimum of 3.5 inches below the insulation shall be permitted to claim an effective duct insulation of R-25 for the deeply buried section of the duct when using a simulated energy performance analysis. R403.3.7 Ducts located in conditioned space, For ducts to be considered as inside a conditioned space, the ducts shall comply with either of the following: 1. The duct system is located completely within the continuous air barrier and within the building thermal envelope. 2. The duct save buried within ceiling insulation in accordance with Section R403.3.4, is less than or equal to 1.5 cubic feet per minute (42.5 L/min) per 100	Charles Cottrell, North American Insulation Manufacturers Association (NAIMA)	D
42)	2015 IECC Table R405.5.2(1)	Incorporate the following approved 2015 IECC code change as of the end of the 2016 ICC Group B Public Comment Hearings: CE 259-16 Part II (Residential provisions) The remainder of the table is unchanged.	Roger LeBrun, VELUX America	D

#	SECTION	SUMMARY	PROPONENT	ACT.*
43)	2015 IECC R406	Revise Section R406 Energy Rating Index Compliance Alternative R406.1 Scope. This section establishes criteria for compliance using an Energy Rating Index (ERI) analysis. R406.2 Mandatory requirements. Compliance with this section requires that the mandatory provisions identified in Sections R401 and R403.5.3 be met. The building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. Exception: Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.R406.3 Energy Rating Index. The Energy Rating Index (ERI) shall be a-numerical integer value that is based on a linear-scale constructed such that the ERI reference design has an Index value of 1.6 and a residential building at the uses no net purchased energy has an Index value of 0.5 tack integer value that is based on a linear-scale constructed such that the ERI reference design has an Index value of 0.5 tack integer value on the scale shall represent a 1-a percent chall uses no net purchased energy has an Index value of 0.5 tack integer value on the Scale shall represent 3-1 percent chall uses no net integer of the ERI reference design ventilation rate shall be in accordance with the Individual consider all energy used in the residential building. The ERI shall ensolided in the ERI reference design on the noted design. Ventilation rate = (0.01 x total square foot area of house) + (7.5 (N _{In} + 1)) Equation 4-1 where, Ventilation rate in units of cubic feet per minute N _{In} = Number of bedrooms R406.3.1 ERI reference design shall be configured such that it meets the minimum requirements of the 2006 International Energy Conservation Code prescriptive requirements. The proposed residential building shall be shown to have an annual total-normalized modified load less than or equal to the annual total loads of the ERI reference design. R406.3.1 ERI reference design shall be c	Amanda Hickman, Leading Builders of America	No Action in Lieu of Item 44

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#	SECTION	SUMMARY	PROPONENT	ACT.*
44)	2015 IECC R406	SCHON R406 ENERGY RATING INDEX COMPLIANCE ALTERNATIVE R406.1 Scope. This section establishes criteria for compliance using an Energy Rating Index (ERI) analysis. R406.2 Mandatory requirements. Compliance with this section requires that the mandatory provisions identified in Sections R401 and R403.5.3 be met. The building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. Exception: Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R.6. R406.3 Energy Rating Index. The Energy Rating Index (ERI) shall be a numerical integer-value that is based on a linear scale constructed such that the ERI reference design has an Index value of 1.00 and a residential building that uses on one to surchased energy has an Index value of Cach integer value on the scale shall represent a 1- percent change determined in the total energy use of the rated design relative to the total energy use of the ERI reference design accordance with the ANSI/RESNET/ICC 301 except for buildings constructed in accordance with the International Residential Code, where the ERI reference design ventilation rate shall be in accordance with the following: Ventilation rate = (0.01 x total square foot area of house) + (7.5 (N _w + 1)) Equation 4-1 where. Ventilation rate is defined in units of cubic feet per minute Nwere. Ventilation rate supplies to the residential building including on-site renewable energy. Energy used to recharge or refuel a vehicle for on-road (and off-site) transportation purposes shall not be included in the ERI reference design. The ERI reference design shall be configured such that it meets the minimum requirements of the 2006 International inergy Conservation Code prescriptive requirements. The proposed residential building shall be shown to have an annual total normalized medified load less than or equal to the appropriate value li	Shan Arora, Southface	A

#	SECTION	SUMMARY	PROPONENT	ACT.*
		R406.6.2 Compliance report.		
		Compliance software tools shall generate a report that documents that the ERI of the <i>rated design</i> complies with Sections		
		R406.3 and R406.4. The compliance documentation shall include the following information:		
		1. Address or other identification of the residential building.		
		2. An inspection checklist documenting the building component characteristics of the <i>rated design</i> . The inspection		
		checklist shall show results for both the ERI reference design and the rated design, and shall document all inputs entered		
		by the user necessary to reproduce the results.		
		3. Name of individual completing the compliance report.		
		4. Name and version of the compliance software tool.		
		Exception: Multiple orientations. Where an otherwise identical building model is offered in multiple orientations,		
		compliance for any orientation shall be permitted by documenting that the building meets the performance requirements		
		in each of the four (north, east, south and west) cardinal orientations. R406.6.3 Additional documentation.		
		The <i>code official</i> shall be permitted to require the following documents: 1. Documentation of the building component characteristics of the <i>ERI reference design</i> .		
		2. A certification signed by the builder providing the building component characteristics of the <i>rated design</i> .		
		3. Documentation of the actual values used in the software calculations for the <i>rated design</i> .		
		R406.7 Calculation software tools.		
	2015 IECC	Calculation software, where used, shall be in accordance with Sections R406.7.1 through R406.7.3.	Shan Arora,	
	R406	R406.7.1 Minimum capabilities.	Southface	
		Calculation procedures used to comply with this section shall be software tools capable of calculating the ERI as described		
		in Section R406.3, and shall include the following capabilities:		
		1. Computer generation of the ERI reference design using only the input for the rated design.		
		The calculation procedure shall not allow the user to directly modify the building component characteristics of the ERI		
		reference design.		
		2. Calculation of whole building, as a single zone, sizing for the heating and cooling equipment in the ERI reference design		
		residence in accordance with Section R403.7.		
		3. Calculations that account for the effects of indoor and outdoor temperatures and part-load ratios on the performance		
		of heating, ventilating and air-conditioning equipment based on climate and equipment sizing.		
		4. Printed code official inspection checklist listing each of the rated design component characteristics determined by the		
		analysis to provide compliance, along with their respective performance ratings.		
		R406.7.2 R406.6.4 Specific approval.		
		Performance analysis tools meeting the applicable sections of Section R406 shall be <i>approved</i> . Tools are permitted		
		Documentation demonstrating the approval of performance analysis tools in accordance with Section R406.6.1 shall be		
		provided to be approved based on meeting a specified threshold for a jurisdiction the code official. The code official shall approve tools for a specified application or limited scope.		
		R406.7.3 R406.6.5 Input values.		
		Wheren calculations require input values not specified by Sections R402, R403, R404 and R405, those input values shall be		
		taken from an approved source ANSI/RESNET/ICC 301.		
		Add new standard to Chapter 6 Residential:		
		ANSI/RESNET/ICC 301-2014 Standard for the Calculation and Labeling of the Energy Performance of Low-Rise Residential		
		Buildings using an Energy Rating Index First Published March 7, 2014 republished January 2016.		

#	SECTION	SUMMARY	PROPONENT	ACT.*
	2015 IECC R406.4	Revise Table R406.4 and add footnote "a" as follows: TABLE R406.4 MAXIMUM ENERGY RATING INDEX CLIMATE ZONE ENERGY RATING INDEX 2 52 57 3 51 57		No Action
45)		a. When on-site renewable energy is included for compliance using the ERI analysis per Section R406.4, the building shall meet the mandatory requirements with Section R406.2 and the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.	Eric Lacey, RECA	in Lieu of Item 44
46)	2015 IECC Appendix RA	Delete without substitution: APPENDIX RA (IRC APPENDIX T) RECOMMENDED PROCEDURE FOR WORST-CASE TESTING OF ATMOSPHERIC VENTING SYSTEMS UNDER R402.4 OR R405 CONDITIONS ≤ 5ACH 50 All Sections and Tables are to be deleted and are not shown due to space considerations.	Andrea L Papageorge, Southern Company Gas	A
47)	2015 IECC Table C402.1.3	Revise Table C402.1.3 Opaque Thermal Envelope Insulation Component Minimum Requirements- R-Value Method to read as follows: TABLE C402.1.3 OPAQUE THERMALENVELOE INSULATION COMPONENT MINIMUM REQUIRMENTS R-VALUE METHOD Climate Zone 4 EXCEPT MARINE All other Group R Slab-on-grade floors Unheated slabs R-10 for 24" R-10 for 24" below NR below NR Heated slabs R-15 for 24" below NR below NR below NR below NR	James Martin, Building Officials Association of Georgia (BOAG)	
48)	2015 IECC C402.4 - C402.4.3.2	C402.4 Fenestration (Prescriptive). Fenestration shall comply with Sections C402.4 through C402.4.4 and Table C402.4. Daylight responsive controls shall comply with this section and Section C405.2.3.1. Delete C402.4.1.1 Increased vertical fenestration area with daylight responsive controls. Delete C402.4.1.2 Increased skylight area with daylight responsive controls. Delete C402.4.2 Minimum skylight fenestration area. Delete C402.4.2.1 Lighting controls in daylight zones under skylights. Delete C402.4.2.2 Haze factor. Delete C402.4.3.1 Increased skylight SHGC. Delete C402.4.3.2 Increased skylight U-factor.	James Martin, Representing Building Officials Association of Georgia (BOAG)	
49)	2015 IECC C403.2.3	C403.2.3 HVAC equipment performance requirements. Modification to C403.2.3 to reference 90.1-2013 HVAC efficiencies.	John Pruitt, Representing ASHRAE	

#	SECTION	SUMMARY	PROPONENT	ACT.*
50)	2015 IECC C403.2.3	C403.2.3 HVAC equipment performance requirements. Modification to C403.2.3 to reference 90.1-2016 HVAC efficiencies.	John Pruitt, Representing ASHRAE	
51)	2015 IECC C403.4.2.6	C403.4.2.6 Pump Isolation. Chilled water plants including more than one chiller shall have the capability to reduce flow automatically through the chiller plant when a chiller is shut down. Chillers piped in series for the purpose of increased temperature differential shall be considered as one chiller. Boiler plants including more than one boiler shall have the capability to reduce flow automatically through the boiler plant when a boiler is shut down. Flow isolation shall allow time for thermal dissipation of residual heat before isolating boiler(s).	Scott Walters, Representing American Council of Engineering Companies (ACEC)	
52)	C405.2.3- C405.2.3- 405.2.3.2- C405-2-3-3	Delete C405.2.3 Daylight-responsive controls. Daylight-responsive Delete C405.2.3.1 Daylight-responsive control function. Delete C405.2.3.2 Sidelight daylight zone. Delete C405.2.3.3 Toplight daylight zone.	James Martin, Representing BOAG	
53)	2015 IECC C408	Delete SECTION C408 SYSTEM COMMISSIONING entirely.	James Martin, Representing BOAG	
54)	2015 IECC C408.2	C408.2 Mechanical systems and service water-heating systems commissioning and completion requirements. Prior to final mechanical and plumbing inspections, the registered design professional or approved agency shall provide evidence of mechanical systems commissioning and completion in accordance with the provisions of this section. Construction document notes shall clearly indicate provisions for commissioning and completion requirements in accordance with this section and are permitted to refer to specifications for further requirements. Copies of all documentation shall be given to the owner or owner's authorized agent and made available to the code official upon request in accordance with Sections C408.2.4 and C408.2.5 At the discretion of the Owner or owner's agent commissioning of mechanical systems is encouraged to assure validation of system performance. Functional performance testing by a contractor or third party is required. However, code officials shall not require commissioning as a precursor to issuance of certificates of occupancy.	Scott Walters, Representing American Council of Engineering Companies (ACEC)	
55)	2015 IECC C408.2.3.1	C408.2.3.1 Equipment. Equipment functional performance testing shall demonstrate the installation and operation of components, systems, and system-to-system interfacing relationships in accordance with approved plans and specifications such that operation, function, and maintenance serviceability for each of the commissioned systems is confirmed. Testing shall include all modes and sequence of operation, including under full-load, part –load and the following emergency conditions: 1. All modes as described in the sequence of operation. 2. Redundant or automatic back-up mode. 3. Performance of alarms. 4. Mode of operation upon a loss of power and restoration of power. Exception: Unitary or packaged HVAC equipment listed in Tables C403.2.3 (1) through C403.2.3 (3) that do not require supply air economizers.	Scott Walters, Representing American Council of Engineering Companies (ACEC)	

#	SECTION						SUMMA	ARY							PROPONENT	ACT.*
56)	2015 IECC Table R402.1.2 & R402.1.4		Fenestration U-Factor 0.40 0.35 0.35	Skylight U-Factor 0.65 0.55	INSULATION A Glazed enestration SHGC 0.25 0.27 0.25 0.27	S follows ND FENESTF Ceiling R-Value 38	uirement	s by Com			Basement Wall R-Value 0 5/13F	Slab R-Value & Depth 0	Crawl Space Wall R-Value 0 5/13		Neal Davis, Representing Home Builders Association	No Action in Lieu
		h. The first v Climate Zone 2 3 4 except marine	Fenestration U-Factor 0.40 0.35 0.35			EQUI	<u>13</u>	13 cavity insu	all L		•		ipace Wall U- Factor 0.477 0.136		of Georgia (HBAG)	of Item 57
57)	2015 IECC Table R402.1.2 & R402.1.4	Climate Zone 2 3 4 except marine	Fenestration U-Factor 0.40 0.35 0.35 value is cavity in Fenestration U-Factor 0.40 0.35 0.35	INSULA' Skylight U-Factor 0.65 0.55 o.55	TION AND I Glazed Fenestration SHGC 0.25 0.27 0.25 0.27	TENESTR Ceiling R-Value 38 38 49_38 continuou	TABLE R4(RATION RI Wood Frame Wall R-Value 13 20 OR 13+5h 13 20 OR 13+5h 13	22.1.2 EQUIREM Attic Kneewall R-Value 18 18 202.1.4 J-FACTOR Mass U-Fa 0.1	Mass Wall R-Value 4/6 8/13 8/13 8/13 SS Wall octor 65	Floor R-Value 13	Basemen Wall R-Value 0 5/13 ^f 10/13	R-Va & Dep 0 0 10, FT Dus insula	lue Space Wall R-Value 0 5/13 2 0 10/13	ie e	James Martin, Representing Building Officials Association of Georgia (BOAG)	A

#	SECTION	SUMMARY	PROPONENT	ACT.*
58)	2015 IECC 402.4.1.2	R402.4.1.2 Testing. All one and two-family dwelling units shall be tested and verified to less than six air changes per hour at 50 Pascals (ACH50) for Climate Zones 2, 3, and 4. On year after the effective year of the GA Energy Code, all one and two-family dwelling units shall be tested and verified to less than five air changes per hour at 50 Pascals (ACH50) for Climate Zones 2, 3, and 4.	Neal Davis, Representing Home Builders Association of Georgia (HBAG)	R
59)	2015 IECC R402.4.1.2	R402.4.1.2 Testing. Testing shall be conducted in accordance with ASTM E 779 or ASTM E 1827 and reported at a pressure of 0.2-inch w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be per- formed at any time after creation of all penetrations of the building thermal envelope. Testing shall be conducted by a certified duct and envelope tightness (DET) verifier.	James Martin, Representing Building Officials Association of Georgia (BOAG)	R
60)	2015 IECC R402.4.1.2	R402.4.1.2 Testing. Where required by code official, testing shall be conducted by an approved third party. Bring Forward Current GA Amendment: R402.4.1.2 Testing. Testing shall be conducted by a certified duct and envelope tightness (DET) verifier. Add definition of 'CERTIFIED DUCT AND ENVELOPE TIGHTNESS (DET) VERIFIER' as follows: CERTIFIED DUCT AND ENVELOPE TIGHTNESS (DET) VERIFIER. A certified DET verifier shall be a certified Home Energy Rating Systems (HERS) rater, or be a Building Performance Institute (BPI) Analyst, or be an Infiltration Duct Leakage (IDL) Certified, or successfully complete a certified DET verifier course that is approved by the Georgia Department of Community Affairs.	Neal Davis, Representing Home Builders Association of Georgia (HBAG)	R
61)	2015 IECC C403.3	Delete the below paragraph from the exception section of C403.3 Economizers (Prescriptive) The total supply capacity of all fan-cooling units not provided with economizers shall not exceed 20 percent of the total supply capacity of all fan-cooling units in the building or 300,000 Btu/h (88 kW), whichever is greater.	John Pruitt, Representing ASHRAE	
62)	2015 IECC C403.2.9	 C403.2.9 Duct and plenum insulation and sealing. Supply and return air ducts and plenums shall be insulated with a minimum of R-6 insulation where located in unconditioned spaces and where located outside the building with a minimum of R-8 insulation in Climate Zones 1 through 4 and a minimum of R-12 insulation in Climate Zones 5 through 8. Where located within a building envelope assembly, the duct or plenum shall be separated from the building exterior or unconditioned or exempt spaces by a minimum of R-8 insulation in Climate Zones 1 through 4 and a minimum of R-12 insulation in Climate Zones 5 through 8. Exceptions: Where located within equipment. Where the design temperature difference between the interior and exterior of the duct or plenum is not greater than 15 degrees F (8 degrees C). Ducts, air handlers and filter boxes shall be sealed. Joints and seams shall comply with section 403.2.4 C403.2.9.2 of these Georgia State Supplements and Amendments. Joints and seams shall comply with Section 603.9 of the International Mechanical Code. Exceptions: 	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	

#	SECTION	SUMMARY	PROPONENT	ACT.*
63)	2015 IECC C403.3.9.2	Add new Section C403.2.9.2, 'Joints, seams and Connections', to read as follows: C403.2.9.2 Joints, Seams and Connections. All longitudinal and transverse joints, seams and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA HVAC Duct Construction Standards- Metal and Flexible and NAIMA Fibrous Glass Duct Construction Standards. All joints, longitudinal and transverse seams, and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems or tapes. Without exception all closure systems shall have mastic applied that is at least 9.08 inches (2mm) thick. Closure systems used to seal flexible air ducts and flexible air connections shall comply with Ut 181B and shall be marked "181 B-FX" for pressure-sensitive tape or "181 B-M" for mastic. Duct connections to flanges of air distribution systems equipment shall be sealed and mechanically fastened. Mechanical fastener for use with flexible non-metallic air ducts shall comply with Ut 181B and shall be marked 181B-C. Crimp joints for round metallic ducts shall have a contact lap of not less than 1 inch (25.4 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws or rivets equally spaced around the joint. Closure systems used to seal metal ductwork shall be installed in accordance with manufacturer's instructions. Round metallic ducts shall be mechanically fastened by means of at least three sheet metal screws or rivets spaced equally around the joint. Unlisted duct tape shall not be permitted as a sealant on any duct. Exceptions: 1. Spray polyurethane foam shall be permitted to be applied without additional joint seals. 2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect. 3. Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressure less th	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	
64)	2015 IECC R403.3.6	Add new Section R403.3.6, 'Joints , seams and Connections', to read as follows: R403.3.6 Joints, seams and Connections. All longitudinal and transverse joints, seams and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA HVAC Duct Construction Standards- Metal and Flexible and NAIMA Fibrous Glass Duct Construction Standards. All joints, longitudinal and transverse seams, and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems or tapes. Without exception all closure systems shall have mastic applied that is at least 0.08 inches (2mm) thick. Closure systems used to seal flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked "181 B-KX" for pressure-sensitive tape or "181 B-M" for mastic. Duct connections to flanges of air distribution system equipment shall be sealed and mechanically fastened. Mechanical fastener for use with flexible non-metallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round metallic ducts shall have a contact lap of not less than 1 ½" inch (38 mm) and shall be mechanically fastened by means of not less than three sheet—metal screws or rivets equally spaced around the joints. Closure systems used to seal metal ductwork shall be installed in accordance with manufacturer's instructions. Round metallic ducts shall be mechanically fastened by means of at least three sheet metal screws or rivets spaced equally around the joint. Unlisted duct tape shall not be permitted as a sealant on any duct. Exceptions: 1. Spray polyurethane foam shall be permitted to be applied without additional joint seals. 2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect. 3. Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	А

#	SECTION	SUMMARY	PROPONENT	ACT.*
65)	2015 IECC R403.3.2	 Revise Section R403.3.2 'Sealing (Mandatory)', to read as follows: R403.3.2 Sealing (Mandatory). Ducts, air handlers and filter boxes shall be sealed. Joints and seams shall comply with section 403.2.4 R403.3.6 of these Georgia State Supplements and Amendments. Joints and seams shall comply with either the International Mechanical Code or International Residential Code, as applicable. Exceptions: Air-impermeable spray foam product shall be permitted to be applied without additional joint seals. For ducts having a static pressure classification of less than 2 inches of water column (500 Pa), additional closure systems shall not be required for continuously welded joints and seams, and locking-type joints and seams of other than the snap-lock and button-lock types. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect. Sealing that would void product listings is not required. 	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	А
66)	2015 IECC R403.3.3	 R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods: Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. Post-construction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. Exception:	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	
67)	2015 IECC R403.5.4	R403.5.4 Drain water heat recovery units. Drain water heat recovery units shall comply with CSA B55.2 or IAPMO PS 92. Drain water heat recovery units shall be tested in accordance with CSA B55.1 and have a minimum effectiveness of 42 percent when tested in accordance with CSA B55.1. For heat exchangers in a horizontal installation, the rated effectiveness shall be qualified using the applicable CSA B55.1 test methods but the heat exchanger shall be tested at its minimum slope. Potable water-side pressure loss of drain water heat recovery units shall be less than 3 psi (20.7 kPa) for individual units connected to one or two showers. Portable water-side pressure loss of drain water heat recovery units shall be less than 2 psi (13.8 pKa) for individual units connected to three or more showers.	Ryan Taylor, Representing SCAC and the American Institute of Architect, GA Association (AIA)	

#	SECTION	SUMMARY	PROPONENT	ACT.*
68)	2015 IECC R403.3.4	 R403.3.4 Duct testing (Prescriptive). The total leakage of the ducts, where measured in accordance with Section R403.3.3 shall be as follows: Rough-in test: The total leakage shall be less than or equal to 4 cubic feet per minute (113.3 L/min) per 100 square feet (9.29 m²) of conditioned floor area where the air handler is installed at the time of the test. Where the air handler is not installed at the time of the test, the total leakage shall be less than or equal to 3 cubic feet per minute (85 L/min) per 100 square feet (9.29m²) of conditioned floor space. Post-construction test: Total leakage shall be less than or equal to 4 cubic feet per minute (113.3 L/min) per 100 sq. feet (9.29 m²) of conditioned floor area. 	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	
69)	2015 IECC R502.1.1.2	R502.1.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Sections R403.1, R403.2, R403.3, R403.5 and R403.6. Exception: Where ducts from an existing heating and cooling system are extended to an addition, duct systems with less than 40 linear feet (12.19 m) in unconditioned spaces shall not be required to be tested in accordance with Section R403.3.3. Duct tightness testing is not required for existing duct systems unless more than 50% of the existing duct system is modified.	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	
70)	2015 IECC R503.1.2	R503.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the alteration shall comply with Sections R403.1, R403.2, R403.3 and R403.6. Exception: Where ducts from an existing heating and cooling system are extended, duct systems with less than 40 linear feet (12.19 m) in unconditioned spaces shall not be required to be tested in accordance with Section R403.3.3. Duct tightness testing is not required for existing duct systems unless more than 50% of the existing duct system is modified.	Elaine Powers, Representing Conditioned Air Association of Georgia (CAAG)	
71)	2015 IECC R403.7	Revise R403.7 Equipment sizing and efficiency rating and add the following sentence at the end: R403.7 Equipment sizing and efficiency rating (Mandatory). For automatically modulating capacity heating and cooling equipment, the system shall be deemed to comply with appropriate portions of Manual S provided the lowest output capacity of the equipment is less than the peak design load as determined by Manual J.	Jeffery Sauls, Energy Vanguard, Elaine Powers and Mike Barcik	

#	SECTION			PROPONENT	ACT.*									
72)	2015 IECC R402.1.6	R402.1.6 minimum under this include To Add a new follows: Climate Zone 2 3 4 Window Note 1: V hole cove insulation Note 2: // Note 3: // condition Exception Note 4: I include fi and Ame	Wood Framed Walls 13 13 13 13 U-Factor (Weather-siers (minimen or maximal o	Mass Wall Mass Wall 5 5 5 0.5 max was well (mass wall (mass wall (mass wall (mass wall (mass wall (mass wall for the building of air-impotes and for detail	rmative Conum U-fact the use of t	Basement Wall 0 5 0.30 max cal doors (more maximume deemed to lete), etc.) of this code ic space on t is insulation in See 'Roofline)	(Manda aximum shall be nance A R-Value ES FOR E Value	SHGCs for e according lternative, a store Envelopment of the store Enve	e Complia thermal e to Table 4 and Energe ppe Comp L.1 DMPONEN Ceilings with Attic Space 30 30 30 30 n or maxim -stripped a nsulation F tical or nea	ence Alternative envelope competed and 2.1.1. Complicy Rating Index. TS WHEN TRADE Vaulted Unvented Roofline Airimpermeable 20 20 20 cum U-0.20), weand disappearing/R-values of the contraction with a board. Example	Vaulted Vented Roofline Airpermeable 20 20 20 * Air-imperme 806 other-stripped hatce pull-down stairs (incresponding envelopment)	Vaulted Unvented Roofline Airpermeable 20+5* 20+5* 20+15* able as per IRC 5.5 hes/scuttle minimum R-5 ope element. ope that has insulation	Mike Barcik, Southface, Representing (GEFA)	A
73)	2015 IECC R403.6	Revise R403.6 Mechanical Ventilation to read as follows: R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the International Residential Code or International Mechanical Code, as applicable, or with ASHRAE 62.2-2016 (in entirety) or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.											Mike Barcik, Southface, Representing (GEFA)	
74)	2015 IECC R403.1.2	R403.1.2 Heat pum suppleme	Heat pur nps havin ental heat	np supp g supple t operat	lementary of the second	y heat (Ma electric-resi the heat pu	ndatory istance l imp con	heat shall h npressor ca	ave contron	ols that, except e heating load.	during defrost, p Except in Emerg nperature is belo	gency heating	Mike Barcik, Southface, Representing (GEFA)	

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